



INDUSTRIAL & MARINE ROPE



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COMMON ROPE CONSTRUCTIONS



3 Strand Rope - Is the most economical rope available on the market. It consists of many tiny fibres spun into yarns, and then formed into strands. 3 Strand ropes are flexible, easily spliced and knotted. Fibres can include Manila, Sisal, Polypropylene, Danline (Copolymer), Nylon and come in a Hard, Medium(standard) and Soft Lay.



8 Strand Rope - Is commonly used on or in conjunction with commercial vessels in marine applications. Plaited 8 strand ropes have four right hand laid strands and four left hand laid strands which produces a torque balanced rope. 8 Strand Ropes are easily spliced and has good abrasion resistance. Fibres can include Polypropylene, Nylon, Dual Fibre Blend and Polyester.



12 Strand Rope - Is produced to provide significant improvement in performance, life expectancy and strength. Plaited 12 strand ropes have six right hand laid strands and six left hand laid strands which produces a torque balanced rope. 12 Strand Ropes are easily spliced and offer greater abrasion resistance combined with higher strengths. Fibres can include Spectra, Polyester, Nylon and Dual Fibre Blend.



Double Braid Rope - Is a common marine rope which is designed for great strength to weight ratio. Double Braid ropes have a braided core encased in a braided jacket cover and is designed to bear equal load on the core and cover. These ropes offer high strength and very good abrasion resistance. Fibres can include Nylon, Polyester, Spectra Core, and Dual Fibre Blend.

Other Constructions - With constant demand for higher strength and longer life, rope constructions are continually being upgraded. For mooring applications 4 strand, 6 strand, 7 strand and 24 strand ropes are being manufactured from Aramid fibres to produce high strength and easily spliced rope.

Diamond Braid, Single Braid and Sash Cord are used to produce smaller cords. Sash cords are very economical in price. Diamond and Single Braid are produced for durability and strength at an economical price.

COMMON FIBRES

Natural - Can include Manila, Sisal and Cotton. Natural fibre ropes are economical and have a natural resistance to most weather elements. These fibres are subject to mildew and chemicals.

Polypropylene - Is an economical fibre that absorbs no water, floats and does not shrink when wet. This fibre is susceptible to the elements, it has a low abrasion resistance due to its low melting point.

Nylon - Is a great fibre for applications which require stretch and energy absorption. Nylon ropes will lose between 10% to 15% of their strength when wet. Nylon handles the elements well and has good abrasion resistance.

Polyester - Is relatively strong rope which retains its strength whether wet or dry, and has low stretch properties. Polyester ropes are easy to handle, they have good abrasion resistance and handle most weather conditions.

Aramid - Can include Spectra, Technora, and Kevlar. Aramid fibre ropes are extremely strong and have very little stretch. Aramid fibre ropes require a protective coating, as they are neither UV nor abrasion resistant in their raw state.

Fibre Type	Strength	Weight	Elongation at break	Specific Gravity	Melt Point	Critical Point
Nylon	1.0	1.0	30% - 35%	1.14	460°F(235°C)	350°F(177°C)
Polypropylene	0.55	0.80	18% - 22%	0.91	330°F(165°C)	250°F(121°C)
Polyester	0.9 - 1.1	1.20	15% - 20%	1.38	480°F(250°C)	350°F(177°C)
Manilla	0.30	1.10	13% - 15%	1.38	*275°F(135°C)	210°F(100°C)
Spectra	2.80	0.85	5% - 9%	0.97	297°F(147°C)	150°F(66°C)
Technora	2.90	1.22	4.6%	1.39	*900°F(482°C)	450°F(232°C)
Kevlar	2.70	1.26	1%	1.44	*800°F(427°C)	400°F(204°C)

- * Rope Chars.

CHARACTERISTICS

Finish - Seaguard or Urethane coatings are applied to ropes to help protect ropes from water, foreign elements, abrasion and UV rays.

UV Light - Continual exposure to sunlight can effect the strength of rope. Polypropylene and Polyethylene ropes are highly susceptible to UV rays.

Specific Gravity - Generally refers to whether a rope sinks or floats. A rope with a specific gravity above 1.00 will absorb water and sink, and a rope with specific gravity below 1.00 will float. The amount over or under 1.00 specific gravity will influence how well the rope will sink or float, for example a rope with 1.15 specific gravity will not sink as far as a rope with specific gravity of 1.40.

Dynamic or Static - Dynamic ropes are able to stretch and absorb energy. Static ropes are designed to have very little stretch. Kernmantle ropes are designed to have between 1% to 2% of stretch when loaded.

Splicing - Most rope constructions are spliceable and if done correctly can provide 90% to 95% of new rope strength. Please contact Wesco Industries for further information on splicing.

HANDLING & CARE

Sheaves, Blocks & Winches - Sheave diameters should always be at least a minimum 5 times the rope diameter. For Polyester & Nylon sheave size should be 8 times the rope diameter, and Aramid fibres the minimum sheave diameter should be 20 times the rope diameter. The sheave groove should support the rope over approximately one third of its circumference.

Inspection - Before and after a ropes use, the rope should be thoroughly inspected for signs of kinks, cuts, external wear, chemical attack or surface abrasion. Any rope showing deterioration of the above should be discarded immediately.

Storage and Handling - All rope should be stored in a clean, dry, sunlight and chemical free environment. Care should be taken when uncoiling or unspooling rope to avoid kinking and damaging the rope. When rope is coiled, remove the rope end from the centre of the coil so that the first turn comes off the bottom in a counterclockwise direction.

Manila Rope

3 Strand

Natural Fibre

Features

- Strongest and best quality natural fibre rope. Resists sunlight, will not melt, knots well, has little stretch but it must be stored in a dry area to avoid mildew.
- Specific Gravity 1.38.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength in Pounds	Coil Length Feet
48MAN-08	1/4	2.0	540	600 & 1,250
48MAN-10	5/16	2.9	900	1,250
48MAN-12	3/8	4.1	1,215	600 & 1,200
48MAN-16	1/2	7.5	2,385	600
48MAN-20	5/8	13.4	3,960	600
48MAN-24	3/4	16.7	4,860	600
48MAN-24	7/8	22.5	6,930	600
48MAN-32	1	27.0	8,100	600
48MAN-40	1 1/4	41.9	12,150	600
48MAN-48	1 1/2	60.0	16,650	600
48MAN-64	2	107.5	27,900	600

Applications

General Marine, Shipping, Industrial, Transmission, Oilfields, Pulling Line and Decoration.



Rope sold as full spools or cut lengths

Polysteel Rope

3 Strand

Copolymer Fibre

Features

- High abrasion resistance with less stretch and high strength.
- Extremely UV resistant and will not harden with age.
- No loss of strength when wet
- Specific Gravity 0.91.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength Pounds	Reel Length Feet
48PSC-3S08	1/4	1.42	1,650	1,200
48PSC-3S10	5/16	1.83	2,820	1,200
48PSC-3S12	3/8	3.08	4,330	600 & 1,200
48PSC-3S16	1/2	4.75	5,100	600 & 1,200
48PSC-3S20	5/8	7.58	10,640	600 & 1,200
48PSC-3S24	3/4	11.50	13,570	600 & 1,200
48PSC-3S28	7/8	15.83	18,780	600 & 1,200
48PSC-3S32	1	18.33	21,730	600 & 1,200
48PSC-3S36	1 1/8	24.42	29,000	600 & 1,200
48PSC-3S40	1 1/4	31.08	33,050	600 & 1,200
48PSC-3S48	1 1/2	39.67	47,560	600 & 1,200
48PSC-3S56	1 3/4	48.83	58,910	600 & 1,200
48PSC-3S64	2	65.83	78,000	600 & 1,200

Applications

General Marine, Shipping, Industrial, Transmission, and General Purpose.

Safety Lifeline Rope

5/8" Diameter rope is stocked suitable for Lifeline rope. This rope meets CSA Z259.2M and ANSI Z359.1 standards. Polysteel Safety Lifeline rope has no knots or yarn splices and is supplied in green colour with yellow tracer in each strand.



Made in Canada

Rope sold as full spools or cut lengths

Polypropylene Rope

3 Strand

Polypropylene

Features

- Low cost general purpose rope that floats and does not absorb water.
- Specific Gravity 0.91.

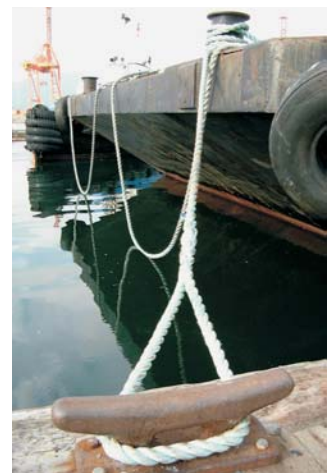


Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength Pounds	Coil Length Feet
48POL-3S08	1/4	1.23	1,250	600
48POL-3S10	5/16	2.22	1,900	600
48POL-3S12	3/8	2.73	2,700	600
48POL-3S16	1/2	4.88	4,100	600
48POL-3S20	5/8	8.50	6,200	600
48POL-3S24	3/4	10.90	8,500	600
48POL-3S28	7/8	15.80	11,500	600
48POL-3S32	1	19.20	14,000	600
48POL-3S40	1 1/4	29.60	21,000	600
48POL-3S48	1 1/2	43.30	29,700	600
48POL-3S56	1 3/4	65.10	43,000	600
48POL-3S64	2	83.40	52,000	600
48POL-3S72	2 1/4	92.00	69,000	600
48POL-3S80	2 1/2	107.00	80,000	600

- Colours Stocked: Blue, Yellow, Black and Yellow/Black.

Applications

General Marine, Shipping, Industrial, Transmission, and General Purpose.



Rope sold as full spools or cut lengths

HiMan Rope

3 Strand

Copolymer Fibre

Features

- Excellent anti-abrasion resistance
- Low elongation and better creep resistant
- High ultra-violet light resistance
- 32% better breaking strength compared to BS Standard Specifications for Polypropylene rope.
- Specific Gravity 0.91.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength	Coil Length Feet
48PST-3S12	3/8"	2.8	2,900	600
48PST-8S16	1/2"	4.7	5,740	600
48PST-8S20	5/8"	7.5	8,300	600
48PST-8S24	3/4"	10.7	11,680	600
48PST-8S32	1"	18.0	19,360	600
48PST-8S40	1 1/4"	27.0	29,800	600
48PST-8S48	1 1/2"	38.5	41,200	600
48PST-8S64	2"	69.0	68,200	600

Applications

- General Marine, Mooring, Tie-up lines, Towing, Shipping, Fishing and Barge Lines.



Rope sold as full spools or cut lengths

Polypropylene Rope

8 Strand

Polypropylene

Features

- Low cost general purpose rope that floats and does not absorb water.
- Specific Gravity 0.91.



Stock Code	Diameter	Circum-frence	Weight Per 100 Feet Pounds	Breaking Strength Pounds	Coil Length METRE
48POL-8S56	1 3/4 (44mm)	5 1/2	59.1	54,230	220
48POL-8S66	2 1/16 (52mm)	6	75.8	72,750	220
48POL-8S72	2 1/4 (56mm)	7	95.4	83,335	220
48POL-8S80	2 1/2 (60mm)	7 1/2	124.3	107,805	220
48POL-8S84	2 5/8 (64mm)	8	128.3	123,000	220

Applications

- General Marine, Mooring, Tie-up lines, Towing and Barge Lines.



Rope sold as full spools or cut lengths

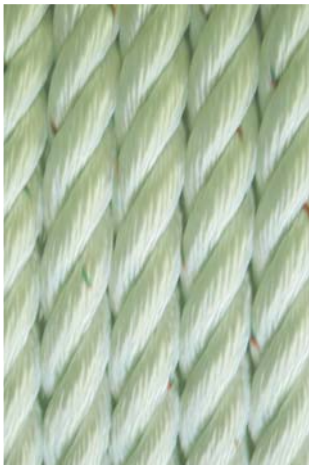
Nylon Rope

3 Strand

Nylon Fibre

Features

- Excellent for Shock Load and High Energy Absorption applications.
- Specific Gravity 1.14.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength Pounds	Coil Length Feet
48NYL-3S08	1/4	1.5	1,500	600
48NYL-3S10	5/16	2.5	2,700	600
48NYL-3S12	3/8	3.5	3,400	600
48NYL-3S16	1/2	6.5	7,000	600
48NYL-3S20	5/8	10.5	10,600	600
48NYL-3S24	3/4	14.5	15,000	600
48NYL-3S28	7/8	20.0	20,000	600
48NYL-3S32	1	26.0	25,800	600
48NYL-3S40	1 1/4	40.0	40,000	600
48NYL-3S44	1 1/2	55.0	54,800	600
48NYL-3S56	1 3/4	83.0	74,000	600
48NYL-3S64	2	95.0	91,000	600

- Colour stocked White. Different colours and sizes available on request.

Applications

Mooring Lines & Dock Lines, Anchor Lines, Sling & Safety Lanyards, Shock & Tow Lines.



Rope sold as full spools or cut lengths

Nova Gold

Double Braid

Nylon Fibre

Features

- Controlled Elongation, High Strength, Abrasion & Mildew Resistance.
- Specific Gravity 1.14.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength		Reel Length Feet
			AVG (LBS)	MIN (LBS)	
48NYL-DB08	1/4	1.7	2,400	2,160	600
48NYL-DB10	5/16	2.6	3,400	3,060	600
48NYL-DB12	3/8	3.7	5,000	4,500	600
48NYL-DB16	1/2	6.4	8,000	7,200	600
48NYL-DB20	5/8	12.0	14,800	13,320	600
48NYL-DB24	3/4	16.0	19,000	17,100	600
48NYL-DB28	7/8	21.8	28,000	25,200	600
48NYL-DB32	1	26.0	33,500	30,150	600
48NYL-DB40	1 1/4	41.0	52,000	46,800	600
48NYL-DB48	1 1/2	59.8	74,000	66,600	600
48NYL-DB52	1 5/8	74.0	91,500	82,350	600
48NYL-DB56	1 3/4	89.0	111,000	99,900	600
48NYL-DB64	2	106.0	131,000	117,900	600

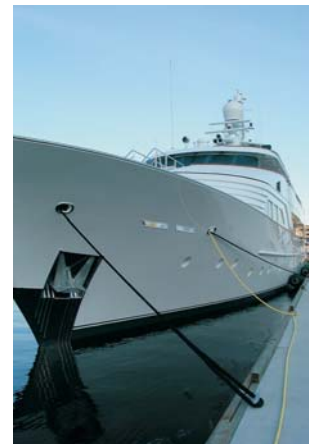
- Colours stocked: White & Black. Different colours and sizes available on request.
- Ask about our prepackaged Dock, Mooring and Anchor Lines.

Applications

Mooring Lines, Dock Lines, Anchor Lines, Tow Lines, Purse Lines, Vehicle Tow Rope and General Rigging.



Made in Canada



Rope sold as full spools or cut lengths

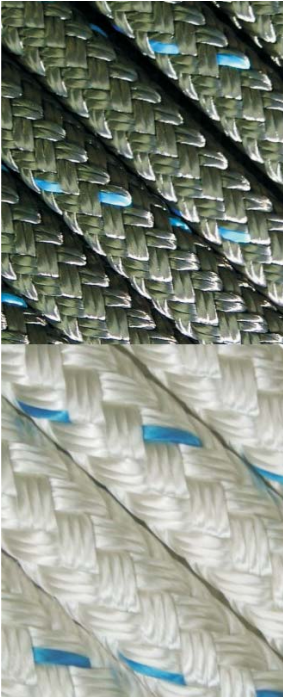
Nova Blue

Double Braid

Polyester Fibre

Features

- Low Elongation, High Strength, Abrasion Resistance & UV Stabilized Cover.
- Specific Gravity 1.38.

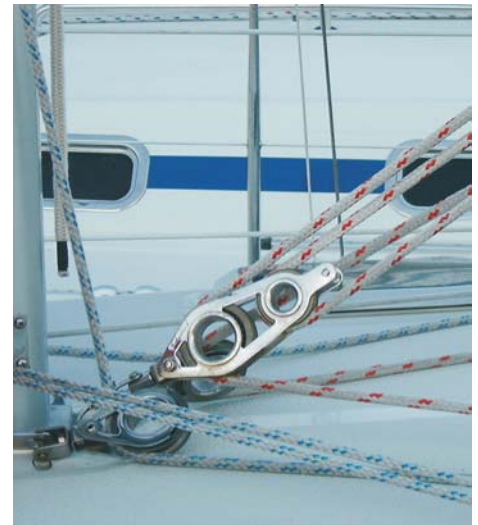


Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength		Reel Length Feet
			AVG (LBS)	MIN (LBS)	
48POL-DB08	1/4	2.0	1,950	1,755	600
48POL-DB10	5/16	3.1	3,500	3,150	600
48POL-DB12	3/8	4.5	4,900	4,410	600
48POL-DB16	1/2	8.0	8,500	7,650	600
48POL-DB20	5/8	12.5	15,500	13,950	600
48POL-DB24	3/4	17.9	18,000	16,200	600
48POL-DB28	7/8	24.4	24,000	21,600	600
48POL-DB32	1	31.9	32,000	28,800	600

- Colours stocked: White & Black with Blue Tracer. Different colours and sizes available on request.

Applications

- Running Rigging on Sail Boats, Marine, Industrial, Mooring Lines, Retrieval Lines, Utility Winch Lines and General Rigging.



Made in Canada

Plasma-12

12 Strand

Spectra Fibre

Features

- High strength with lowest creep & torque free.
- Floats and easy to splice
- Specific Gravity 0.98



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength Pounds	Reel Length Feet
48SPHS-12S08	1/4	1.6	8,000	600
48SPHS-12S10	5/16	2.5	11,700	600
48SPHS-12S12	3/8	3.7	17,500	600
48SPHS-12S16	1/2	6.4	31,300	600
48SPHS-12S20	5/8	10.6	51,400	600
48SPHS-12S24	3/4	13.3	68,500	600
48SPHS-12S28	7/8	19.6	92,600	600
48SPHS-12S32	1	23.4	110,000	600
48SPHS-12S40	1 1/4	36.2	165,000	600
48SPHS-12S48	1 1/2	51.7	221,000	600
48SPHS-12S56	1 3/4	78.4	314,000	600
48SPHS-12S64	2	91.4	355,000	600

- Colours stocked: Purple

Applications

Winch Ropes for Utilities, Tug Assist Lines, Commercial and Industrial Applications, Helicopter Longlines, Fishing and Oceanographic.



Rope sold as full spools or cut lengths

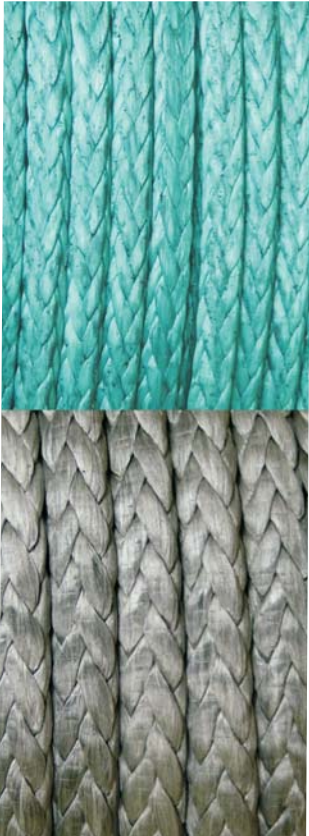
Spectec 12

12 Strand

Spectra Fibre

Features

- Very High Strength, High Strength to Weight Ratio & Low Stretch.
- Specific Gravity 0.98.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength		Reel Length Feet
			AVG (LBS)	MIN (LBS)	
48SPEC-12S04	1/8	0.53	1,800	1,620	660
48SPEC-12S05	5/32	0.91	2,000	1,800	660
48SPEC-12S06	3/16	1.04	3,800	3,400	660
48SPEC-12S08	1/4	1.70	6,600	5,900	660
48SPEC-12S10	5/16	2.90	9,800	8,800	660
48SPEC-12S12	3/8	3.80	14,100	12,700	660
48SPEC-12S16	1/2	6.40	25,000	22,500	660
48SPEC-12S20	5/8	10.60	40,700	36,600	660
48SPEC-12S24	3/4	13.20	48,000	43,200	660
48SPEC-12S28	7/8	19.50	67,800	61,000	660
48SPEC-12S32	1	23.30	80,000	72,000	660

- Colours stocked: Black, Green & Yellow. Different colours and sizes available on request.

Applications

Running Rigging on Yachts, Anchor Lines, Tug Assist Lines, Towing lines, Mooring Rope, Helicopter Long Lines and General Rigging. A great replacement for wire rope.



Made in Canada



Rope sold as full spools or cut lengths

Bluewater Static Rope

Kernmantle

Dual Fibre

Features

- Low visibility, low elongation static rope. It has a double-twist cabled polyester sheath with a double-twist cabled nylon core.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength in Pounds	Colour	Reel Length Feet
48STC-06VAR	5mm	1.27	1,250	Various	328(100M)
48STC-10GLD	8mm	3.50	4,000	Gold	450(137M)
48STC-14BLK	7/16	5.47	6,500	Black	656(200M)
48STC-14OLV	7/16	5.47	6,500	Olive Drab	656(200M)
48STC-14GLD	7/16	5.47	6,500	Gold	656(200M)

- Black & Olive Drab are Assaultline rope. Gold is Bluewater 2000.

Applications

Rappeling, Rescue and Entertainment Industry.



Rope sold as full spools or cut lengths

Sash Cord

Sash

Spun Polyester

Features

- Manufactured from Polyester to increase resistance to rot and mildew & offer higher strength.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength in Pounds	Reel Length Feet
48SAS-PL06	3/16", #6	0.63	410	1,000
48SAS-PL08	1/4", #8	1.30	1,000	500
48SAS-PL10	5/16", #10	2.14	1,400	350

- Sold as full spools only.
- Colours stocked: Black. Different sizes available on request.

Applications

Stage Cord, Stage Rigging & Windows.

Solid Braid

Cotton

Features

- Manufactured from a maximum Cotton content. Solid braided cover with cotton core.

Stock Code	Diameter	Weight Per 100 Feet Pounds	Breaking Strength in Pounds	Length in Feet
48SAS-CT06	3/16", #6	1.0	185	100 or 1,000
48SAS-CT08	1/4", #8	1.5	200	100 or 1,000
48SAS-CT10	5/16", #10	2.5	450	100 or 1,000



- Sold as hank or spools only. Colour stocked: White. Different sizes available on request.

Applications

Stage Rigging, Windows, Gaskets & Packings.

Rope sold as full spools or hanks only

Diamond Braid

Diamond Braid

Features

Nylon

- A quality Diamond Braid rope with shock absorbing & elasticity properties. Available Black or White.



Stock Code	Diameter	Weight Per Spool Pounds	Approximate Breaking Strength in Pounds	Reel Length Feet
48CN-DB04	1/8	5	360	1,000
48CN-DB06	3/16	9	860	1,000
48CN-DB08	1/4	16	1,130	1,000 & 250

Applications

- Tent & Awning, Stage Rigging and Drapery.

Shock Cord

Braided

Features

Dual Fibre

- The cover is manufactured from Polyester to increase resistance to rot and mildew & for higher strength.



Stock Code	Diameter	Weight Per 100 Feet Pounds	Reel Length Feet
48SHK-PT04	1/8	0.60	500
48SHK-PT06	3/16	1.31	500
48SHK-PT08	1/4	2.57	500
48SHK-PT10	5/16	3.62	500
48SHK-PT12	3/8	5.36	250
48SHK-PT16	1/2	7.80	250
48SHK-PT20	5/8	11.60	150

Applications

Small running rigging, Entertainment Industry & General use.



Made in Canada



Rope sold as full spools or cut lengths

Dock, Anchor & Mooring Lines

Dock Lines

Nylon Rope



Wesco manufacture all Dock Lines using a quality Double Braid or 3 Strand Nylon Rope. Dock Lines come complete with a 12" eye spliced in one end and heat sealed at the other end. Custom colours, eye sizes and lengths available upon request.

Diameter	Length in feet
3/8	15, 20, 25
1/2	20, 25, 30, 35
5/8	20, 25, 30, 35, 40

Anchor Lines

Nylon Rope



Wesco manufacture all Anchor Lines using a quality Double Braid or 3 Strand Nylon Rope. Anchor Lines come complete with a thimble eye spliced in one end and heat sealed at the other end. Custom colours, eye sizes and lengths available upon request.

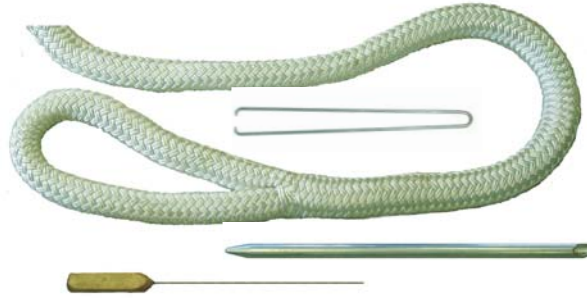
Diameter	Length in feet
3/8	100, 150, 200
1/2	100, 150, 200
5/8	150, 200, 250, 300
3/4	200, 250, 300, 400

Size Selection Guide

Vessel Size	Dock	Anchor	Mooring
<20ft	3/8	3/8	3/8
20-25ft	3/8	3/8	1/2
25-30ft	3/8	3/8	1/2
30-35ft	1/2	1/2	5/8
35-40ft	1/2	1/2	5/8
40-45ft	5/8	5/8	3/4
45-50ft	5/8	5/8	3/4
50-55ft	5/8	5/8	3/4
55-60ft	3/4	3/4	1
60-65ft	3/4	3/4	1



Splicing Tools



Selma Fid Kit



Aluminum Tubular Fid



Wire Splicing Fid

Stock Code	Size Inches	Description	Weight per Piece Pounds
48SPL-MANUAL	N/A	Samson Rope Splicing Manual	0.5
48FID-04/12SLM	1/8", 1/4", 5/16", 3/8"	4 Piece Selma Fid Kit	0.9
48FID-04/16SLM	1/8", 1/4", 5/16", 3/8", 1/2"	5 Piece Selma Fid Kit	1.0
48FID-08AL	1/4"	Aluminum Tubular Splicing Fid	0.2
48FID-10AL	5/16"	Aluminum Tubular Splicing Fid	0.3
48FID-12AL	3/8"	Aluminum Tubular Splicing Fid	0.4
48FID-16AL	1/2"	Aluminum Tubular Splicing Fid	0.5
48FID-20AL	5/8"	Aluminum Tubular Splicing Fid	0.6
48FID-24AL	3/4"	Aluminum Tubular Splicing Fid	0.7
48FID-32WAL	1"	905 Wire Splicing Fid	0.5
48FID-40WAL	1 1/4"	905 Wire Splicing Fid	0.6
48FID-48WAL	1 1/2"	905 Wire Splicing Fid	0.7
48FID-56WAL	1 3/4"	905 Wire Splicing Fid	0.8
48FID-64WAL	2"	905 Wire Splicing Fid	0.9
24SYN-99010	N/A	Hot Knife	3.5

WESCO

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